

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: "Integration Area" <integrat@usr.com>
Subject: AN/FRT-51s
Message-ID: <9601168244.AA824490559@robogate.usr.com>

AN/FRT-51s...

1). All I know is that these big transmitters were built by Collins in the late 1950s. Does anyone have any additional information on them?

2.) Does anyone want an AN/FRT-51? I received a call yesterday from a Joe Szabat in Pennsylvania. Apparently he has four of the things in his father's garage in Oil City, PA (80 miles north of Pittsburgh), and they are just getting in the way now. If you would like to talk to him about these, call him at (412)264-7498 (no email). Keep in mind that these are serious boatanchors - 6 feet tall, most likely in the 800 pound class. Being Collins, they are probably pretty darn nice hunks of equipment, although I really do not know what condition they are in. At least one manual is available, but he couldn't find it last night.

William Donzelli
integrat@usr.com

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: russ@eng.mc.xerox.com (Russ Schroeder)
Subject: Re: AN/FRT-51s
Message-ID: <9602162027.AA08408@robinhood>

AN/FRT-51(*) - Radio Transmitting Set, HF, 1.7-30 Mhz, 5 bands, 10 channels.
5 KW carrier output for CW, FSK, FAX, and high level AM.
4 KW PEP for ISB operation

(From the Military Equipment List)

Russ W2DYY

russ@eng.mc.xerox.com

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: Bob Burton <bburton@world.std.com>
Subject: Avoiding Hardware Damage
Message-ID: <199602161329.AA15128@world.std.com>

What tools, lubricants, and techniques are useful for avoiding damage to hardware parts in situations such as:

- * Stuck set screws;
- * Stuck, serrated, round nuts that hold control knobs to front panels;
- * Stuck serrated nuts that lock settings on telegraph keys and bugs?

Are there pliers and wrenches that protect rather than strip delicate, machined hardware? If so, what is a good source for these?

Are there effective lubricants that do not leave an objectionable film and smell (similar to the odor of Liquid Wrench)?

What are some hints and tips that experienced restorers have found effective?

Thank you in advance for any suggestions. More than once I have brought home a radio artifact in very good condition only to reduce it to less than that through inexperience.

Bob, W8WO
Caledonia, Michigan
bburton@world.std.com

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: Avoiding Hardware Damage
Message-ID: <199602161455.IAA10176@dlep1.itg.ti.com>

At 07:31 AM 2/16/96 -0600, Bob, W8WO, wrote:

>Are there pliers and wrenches that protect rather than strip delicate,
>machined hardware? If so, what is a good source for these?

Back when I worked on production hardware, we simply used nutdrivers lined with masking tape. Simply take a small length of tape, cut to width as appropriate, stick to inside of nutdriver and fold over to outside. The first time or two you use the nutdriver the masking tape inside gets thinned down, but plenty remains to hold the tape on the edge which provides most of the protection. It might sound gimpy, like something that would quickly wear out, but it doesn't. It seems to wear well for years.

>Are there effective lubricants that do not leave an objectionable film and
>smell (similar to the odor of Liquid Wrench)?

Liquid Wrench failed to loosen several setscrews when I used it a few weeks ago, so I'm considering using WD-40. Failing that, unless someone can provide a better option, I guess I'll drill out the setscrews and try to retap the holes or maybe drill and tap new holes. The setscrews are stuck

in Super-Pro knobs (which I don't seem to have enough of), so I don't want to just throw the knobs away.

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: Duncan Cadd <dcadd@luc.ac.be>
Subject: BC222
Message-ID: <9602160913.AA30860@alpha.luc.ac.be>

Greetings, Anchorites, from a drizzly and thawing Diepenbeek in N.E. Belgium!

> From: Michael Crestohl <mc@shore.net>
> <http://linux.cec.army.mil/htbin/billcnt/hamradio/equipment/mi.htm>

Nice site. I hauled the schematic of the BC222 across the pond, being a QRP op most of the time it sounded interesting. It is! I have questions . .

- 1) For what was this originally used ? Nice little rig, I'm really impressed with the fact that ANYBODY's military thought to stick a two tube QRP AM transceiver (a plate modulated Hartley which does double duty as a regen on rx!!! NA4G are you there ?) into a tin box and use it for mil purposes - someone out there has SOUL!
- 2) On the schematic, there's a completely separate circuit which looks to these eyes like a quartz crystal connected between antenna and earth, the antenna being capable of being shorted to earth by a switch on the end of a piece of coax!! Looks and sounds crazy, I know, but it doesn't appear to connect to anything on the main diagram. For what serves this strange thing? Spot tuning of the tx through some weird interaction with stray rf from the regen ? <grin>
- 3) Looks like three components in this circuit are probably critical to acceptable operation (I may be wrong!) - most helpfully, these bits are simply labelled 'transformer', 'coil' and 'coil, tuning' without any specs or detail! The 'transformer' is interesting, has three windings, one for carbon mike, one for plate load of

the Hartley when used as regen rx, the third is in the grid of a type 33 pentode and serves either as mike matching into the grid on transmit OR as step up (guesses 1:3 or 1:5 or so) from the detector on rx. The plate modulation(tx)/audio amp(rx) 'coil' is probably straightforward enough, the usual bucketful of Henries, likewise the two 'coils, tuning' one tapped Hartley osc, the other tapped onto said osc coil and in series with the antenna loading cap - but what frequency range did this thing cover ? And, if anyone here has details on these bits, I have a hankering to try something similar (at which point the thread will move to Glowbugs as being more appropriate.) Oh yes, the Hartley tube is a type 30.

I love designs like this - most of the bits do at least two jobs. Clever stuff. The designer ought to get a medal . . . er, mil stuff, maybe he did.

Got details of the new ON license the other day. Class 'A' ops now have to fork out \$190 (yes, one hundred and ninety US\$) per year 8-(

730 (inflation),

Duncan ON9CHU / G0UTY G-QRP 8117 dcadd@luc.ac.be QPW 25+
(quid per watt)

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: Al Klase <alklase@postoffice.ptd.net>
Subject: Re: BC222
Message-ID: <199602161354.IAA03596@ns1.ptd.net>

>1) For what was this originally used ?

This was the original Wakie-Talkie (back-pack TX-RX) 28-52 MHz (VHF!)
@ watts out. The RX is a super-regen.

>2) On the schematic, there's a completely separate circuit which
> looks to these eyes like a quartz crystal connected between
> antenna and earth, the antenna being capable of being shorted to
> earth by a switch on the end of a piece of coax!! Looks and
> sounds crazy, I know, but it doesn't appear to connect to
> anything on the main diagram. For what serves this strange thing?
> Spot tuning of the tx through some weird interaction with stray
> rf from the regen ? <grin>

Yes, I beleive thats the case. Transceivers of this sort are
discribed in
pre-WWII radio mag's like QST>

73, A1 N3FRQ

A1 Klase - N3FRQ
alklase@mailbox.ptd.net
Flemington, NJ

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: Michael.J.Knudsen@att.com
Subject: Re: BC222
Message-ID: <9602161725.AA13816@bock.ih.att.com>

Duncan's description reminds me of my little Japanese 30-50 MHz xcver with ONE tube, a dual triode, that basically works like he described. Built like a brick.

Sometimes I think the extra switch contacts and isolating Rs and Cs outweighed the size and cost of the tubes they saved, a comment I'd apply to some modern stuff as well, like the KWM-2 whose relays are a source of annoyance (to use a degree of understatement appropriate in replying to a Briton :-).

Of course filament battery power was the paramount consideration in portable gear.

Crystal between ant and ground? Hmmm, an xtal filter right up front for the desired rx freq? Why not? Anyone ever try shroting an old Novice rock across their RX to see if it peaked somewhere around 3700 KC?

Ham licenses are now free in the US; don't know about commercial licenses, but the FCC has a right to make them pay their own way. At \$190/annum, you must be subsidizing a lot of hams over there...73, mike k w9nrd/ae

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: mike <michaels@kc2kj.k2nesoft.com>
Subject: best Hallicrafters
Message-ID: <199602161904.0AA05958@kc2kj.k2nesoft.com>

have owned very few Halicrafters but have generally been little impressed with the rigs. My sx-62 was somewhat drifty and difficult to tune but looked very impressive with the large slide rule dial indicating the names of places all over the world . VErY impressive to an 11 year old. Halicrafters low end receivers generally performed poorly, but were great starter receivers though.

I have an sr-2000 transceiver that works reasonably well except for agc action (a fault not a design fault I hope), but Hallicrafters generally tried to use off-the-shelf components for their receivers and generally compromised on the mechanical details required to provide truly outstanding stability. Given the performance expectations we now have for electronics I doubt that Hallicrafters could survive today in fact I guess they didn't!

--

Michael Sullivan --- michael.s@kc2kj.k2nesoft.com

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996

From: tech@cs.athabascau.ca (Richard Loken)

Subject: best Hallicrafters

Message-ID: <m0tnW1q-0018ZXC@aupair.cs.athabascau.ca>

Michael sez:

>Given the performance expectations we now have for electronics I doubt
>that Hallicrafters could survive today in fact I guess they didn't!

Oh, I don't know. Hallicrafters was weakest in the areas that required mechanical engineering. Today, not even Collins would require the services of a mechanical engineer to produce a receiver - its all digital with the least possible analogue glue. Buy a prom burner and an SMT pcb fabrication line then hire a 14 year old to write the firmware and you are away. Better yet, 1) get marketing to specify the features and the front panel 2) contract an engineer to design the electronics around the features of the front panel while pushing off the coding details on the 14 year old 3) outsource the PCB's and packaging 4) assemble it in house ... oh shit, send the spec to Taiwan and just ship to the dealers off the pallets on the docks.

Hallicrafters would do just fine if they could have held out another ten years.

Richard Loken VE6BSV, Systems Programmer - VMS	:	"...underneath those
Athabasca University	:	tuques we wear, our heads
Athabasca, Alberta Canada	:	are naked!"
** tech@cs.athabascau.ca **	:	- Arthur Black

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996

From: Joe Pfeifer <72622.127@compuserve.com>

Subject: bigger than a boatanchor? how about pier!

Message-ID: <960216182301_72622.127_IHD132-1@CompuServe.COM>

Subject: bigger than boatanchor? how about pier!

I recently obtained a very big boatanchor. I have a friend who gave me some stuff (enough to fill the back of a pickup!) hundreds of tubes, test equipment,

a couple of perfect 1930s -1940s Tung Sol tube manuals, and this huge beautiful boatanchor. A Barker and Williamson T368E/URT AM transmitter. This baby weighs about 500-700 lbs! thank goodness it consists of a rack with three sliding drawer chassis, so you can disassemble it to transport. As I slid one drawer out I was amazed at the beauty of the chassis, all copper plated, tons of tubes, gigantic Jennings vacuum capacitors, quite a beauty all by itself. I had to take it to a friend's garage because I don't have the room yet to play with it in my shop. The nameplate mentions a training manual: TM11-809 (ORDER # 15177-PP62) included in the tube lineup are; 4D21, and a 4-400. Does anyone know any more about the unit, it's value, or know where I might get more information. He also gave me a Signal Corps BC906D frequency Meter and a General Radio 1211A unit oscillator with power supply to use as an exciter. (yes I am now excited.)

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: Paul.Thekan@pgtp.varian.com (Paul Thekan)
Subject: Book on British Military Radios
Message-ID: <199602161509.HAA20840@pgtp.varian.com>

Greetings all

Just received my copy of the " Wireless for the Warrior " by Louis Meulstee . It covers British Wireless Sets No. 1 - 88 with sets No. 10 , 18 , 19 , 22 and 38 described in summary only , and to be dealt with in a Vol. 2 that is to come out at a later time. The book is really great!. The photos and line drawings are very good.

The book is softbound ,8 1/4 x 11 3/4 , 360 pages . There's 150 photos , 320 drawings , and 130 tables. I'am quoting from the the advert here, but here are a lot of pictures. Each set is described with its history, specifications , accessories , spares list etc. This book took a lot of work and carefull research and it shows it.

The book can be ordered by the fine people that publish Radio Bygones. You can send your order or inquire to:

G C Arnold Partners
9 Wetherby Close
Broadstone
Dorset BH18 8JB
England

The book sells for 28.30 Pounds Sterling , which is about \$ 44 . The price appears to include shipping as I was not nicked any thing extra for shipping. I think purchase by ceredit card is the easiest way to get the book , thats how I ordered mine. I'am not involved with the author or publisher in anyway to hawk this book for them. I thought the rest of you might find this of interest .

I think with all the military radio collectors out there in this group we could come up with a book on U S Military Radio Sets , what say.

Thanks for the bandwidth
73 Paul N6FEG

Paul Thekan - Speaking for Himself
Paul.Thekan@pgtp.varian.com

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: Friday Nite OT CW QSO Gettogether
Message-ID: <9602161815.AA115366@csemail.cropsci.ncsu.edu>

I find that I have been putting in too many headaches and hours onto a manuscript that was due today, but the publisher will allow me another week on it..... yeah! SO.....(:+}}.....dit dit.....dit.....

QST QST DE NA4G BT

Tonite be the night to fire up yer glow-in-the-dark firebottles an' warms yer heart, an' smiles yer smiles fer somemores o' dat fine ether burning play, on those ol' useless short waves o' 200 metres an' down. This time methinks me will play on two of those short waves. First QRG will be 84.86563 metres QTR 0300Z and 0400Z with an alternate QRG of 83.80953 metres. Note ye that the alternate be of the same timbre and resonance as a fine Stradivari quartze plucked straight from the innards of one of them thar greate belchin' visual Behemoths wat receives pictures on the ether. This be fer testing out wats them that has no fine quartzes may cheaply use bye the byes if an aforesaid Behemoth be opened bye the gullet fer gathering in some fine parts to use upon these waves. Second QRG will be 166.4355 metres QTR 0500Z. This should allow some of them shorter wave folks to join in on the fun. Anything be allowed that emits that fine and fair wave of the continuous category, as long as it be not afeared to emit warm glows in the wee small hours. Things which emitteth not such glows be used only in the direst of straights, when no recourse haves ye to another of warmer glow.

Calls ye the crewe bye the sign, to wit:

CQ BA/GB CQ BA/GB DE yourcall yourcall K

upon the top of the apointed hours. Reports ye the findings and
who be about bye the byes upon the net in the next weeke.

So, mateys, stokes ye up yer firebottles, an' grapples yer tin cans
atop yer 'ead, an keeps yer keys at the fore, cuz a fine nite aboard
the watch it may be this cold winter's nite. Fair winds an' followin'
seas they be fer the crewe wats pleyes the ether aboard this nite.....

73/ZUT DE NA4G/Bob

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: jmartin@hrlban1.aircrew.asu.edu
Subject: GRC-109
Message-ID: <SA39+rv871a@hrlban10.alhra.af.mil>

BA'ers,

The recent talk about clandestine gear got me wondering... I have a
complete GRC-109 setup which I got a couple years ago and just stashed
away. It isn't quite in the category of heavy boatanchors (well, maybe a
rowboat anchor), but the nature of its construction sort of suggests
clandestine ops or similar. The cast metal cases with sealed lids, the tiny
built-in key on the TX, and the universal power supply make me wonder what
or who this equipment was intended for. Anyone out there who has insight or
experience with the GRC-109 series?

73, John Martin
jmartin@hrlban1.aircrew.asu.edu

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Re: Hallicrafters SX-133
Message-ID: <68758.ddillman@igc.apc.org>

On Thu, 15 Feb 1996 14:20:59 -0600 (CST),
Colin Schmutter <cschmutter@bcit.bc.ca> wrote:

>Would anyone have information about the Hallicrafters SX-133
>receiver?

>

>I would like know if it is double or single conversion, general
>coverage or ham bands only, has product detector or AM only.

>

>Also any comments on performance would be appreciated.

Greetings, Colin. According to Moore's 3rd Edition, the SX-133 covered .535 - 31.5Mhz in 4 bands with crystal filter and, one assumes, a BFO. Calibrated bandspread for 80 - 10m plus the 49, 31, 25 and 19m SW bands. With only 7 tubes I suspect single conversion (although this is not stated) and no product detector. Original price is given as \$275.

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: GaryReed <deer119@alllinux1.alliance.net>
Subject: HQ-170-A Freq range
Message-ID: <m0tnM4v-000pMfC@alllinux1.alliance.net>

Could someone tell me if the HQ-170-A and HQ-170A-VHF are different models and if so what bands are covered by each ? Thanks Gary WB80FU

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: Sandra L Knepper <slkst29+@pitt.edu>
Subject: HRO coils
Message-ID: <Pine.3.89.9602160758.A12257-01000000@unixs6.cis.pitt.edu>

I have extra HRO-5 coils, some low band, that I will swap for HRO-60 coils like the AA, AB, AC, AD, AE, and others.

If interested, please, reply.

I am presently restoring an HRO-60 and just have the standard A,B,C, and D coil set.

Does anyone out there need the 6 meter drum plastic scale.

Thank you.

David, W3BJZ

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: don merz <71333.144@compuserve.com>
Subject: HT-32, Viking II FS
Message-ID: <960216145149_71333.144_DHB98-1@CompuServe.COM>

Vintage Gear For Sale

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.
412-234-8819 (weekdays, EST or leave a message anytime).
71333.144@compuserve.com

Hallicrafters HT-32 Mark I transmitter. 1957-vintage 80 -10 meter SSB and CW transmitter--one of the first of its breed. This one has an very good or excellent front panel and a case that is a mess. Untested. Complete, unmodified. With original manual. \$105
E.F. Johnson Viking II transmitter. 1953-vintage 160-10 meter AM/CW transmitter originally sold as a kit. This one has one 1/4" hole in the yop cover. The front panel is all original and looks good. But there are many paint chips and scratches around the edges of the panel. Complete. Unmodified. Untested. \$122
Clegg 99'er 6 meter AM transciever. Crystal controlled TX and tunable receive. Front panel has some pencil marks around the dial and is dirty but should clan up to be excellent. The case is excellent. All original. Complete, unmodified, untested. \$39

E.F. Johnson knobs. 2 small Viking-style knobs with skirts having a 0-100 scale engraved on them. \$4 each.
Goat tube shields. 2-piece shields complete with spring steel ring to hold them together. All original and excellent. \$8/shield. All 3 for \$20.

--

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Is SX-101A the Best Halli?
Message-ID: <199602161432.IAA04642@dlep1.itg.ti.com>

At 07:43 PM 2/15/96 -0600, Al Fritsche wrote:

>

>For my small vote on the best hallicrafters I would have to say the SX-101 is
>a pretty darn good receiver... BTW
>a month or two ago someone said that the SX-101MK3 had a product detector as
>part of the upgrade, Iam sorry, thats wrong the Sx-101A introduced the
>detector to the line.

My SX-101A, sure enough, has a product detector which works well. The

receiver is mechanically very stable (and probably electrically stable too, if I'd let it stay plugged in). The selectivity leaves something to be desired, though. The X in SX doesn't mean crystal filter in the case of the SX-101A. Instead, the receiver implements variable bandwidth via LC filtering and uses a T-notch (or somesuch) to accomplish notch rejection. The notch works OK, but skirt selectivity for all bandwidths leaves a lot to be desired. Any rig with a mechanical filter or multi-pole crystal filter exhibits better skirt selectivity.

For some reason, my SX-101A just doesn't provide "good" audio for weak signal reception. It doesn't matter which speaker or headphones I use, it just doesn't seem to provide clean intelligible audio. Maybe that's tied into the IF filtering or maybe my SX-101A has a minor problem in the audio chain.

I'd be interested in hearing other opinions on the merits of the SX-101/A/MkIII.

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: Re: Is SX-101A the Best Halli?
Message-ID: <m0tnTck-000TtiC@spider.lloyd.com>

At 08:33 AM 2/16/96 -0600, Bill Sorsby wrote:

>
>For some reason, my SX-101A just doesn't provide "good" audio for weak
>signal reception. It doesn't matter which speaker or headphones I use, it
>just doesn't seem to provide clean intelligible audio. Maybe that's tied
>into the IF filtering or maybe my SX-101A has a minor problem in the audio
>chain.
>
>I'd be interested in hearing other opinions on the merits of the
SX-101/A/MkIII.
>
>

I had a 101A and a 101 Mk III simultaneously for a while. The 101A was completely refurbished before I got it and sounded really nice on SSB or on AM.

So, there could be something going on in your 101A that needs attention.

After alternately using the 101A and Mk III for a couple of years, I sold the 101A.

Yes, it is the better SSB receiver of the two because of the product detector and yes it has provisions for 6M and 2M converter inputs (important to me, but maybe not to others).

However, it just wasn't a remarkable receiver (I kept comparing it to and subconsciously expecting it to equal the SX-115) and the Mk III offered 160M coverage, a feature I value more highly than any of the features of the 101A. When I realized that I just wasn't using it as much as I was using the Mk III, I figured it was time to let it go to a better home.

As a side note: Of the several 101-type receivers, I think the rarest and maybe the least desirable (from a feature/technical standpoint) would be the SX-101 Mk IIIA. This receiver doesn't cover 160M and doesn't have a product detector, as far as I know.

73,

Jim - km6nk

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Moore's, &c.
Message-ID: <57887.ddillman@igc.apc.org>

On 16 Feb 1996 10:06:42 U,
Lahlum Ross <ross_lahlum@msmail.wes.mot.com> wrote:

>Could you suggest some good references on BAs & other old radios? This Moore
>book keeps coming up in discussions - do you know the complete title etc.?

Greetings, Lahlum. Moore's is considered pretty much the standard reference on BAs these days. It's certainly worth having on your bookshelf. The formal title is "Communications Receivers, The Vacuum Tube Era: 1932 - 1981" by Raymond S. Moore. The 3rd edition is current.

The book is available from, among many other places, Antique Electronic Supply (stock no. B-656, \$19.95), 6221 S. Maple Ave., Tempe, AZ 85283, phone 602-820-5411. I mention AES because their catalog is also worth having if you don't already possess one.

>Also are there any books devoted to Zenith T0

Yes, indeedy. AES also carries "The Zenith Trans-Oceanic, The Royalty of Radios" by John Bryant and Harold Cones (stock no. B-689, \$24.95) which I can recommend.

>and any books on old military radios?

Moore's 3rd edition added a small section on military radios but, as far as I know, there is no comprehensive guide to these sets.

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: Michael.J.Knudsen@att.com
Subject: Re: My National RBJ Saga
Message-ID: <9602161704.AA13791@bock.ih.att.com>

Interestin' stuff. I had an RAS once, which is a Navy HRO Jr -- no S-meter or xtal filter. It used per-octal 6/7 pin tubes (6D6, etc). Your miniature tubes should improve the performance above 14 MHz.

6BE6 = 6SA7; 6BA6 = 6SK7; 6C4 = 6J5; and 6BH6 may be like 6SJ7 (sharp cutoff).

My RAS did not require a speaker filed coil in the B+ circuit, but a lot of classic Nationals did.

As for freq, start with the little graph chart on the front of the coil, and beyond that it's make up your own chart, using a known source of accurate signals. On any given band, the PW dial markings are sort of linearly related to KHz, but not in any predetermined ratio. A throwback to the era of battery AM-BC radios with 0-100 dials, and the early '30s homebrew ham sets with similar dials. Even the great SP600 gives you a rough direct freq reading, but expects you to log the 0-100 speed dial for later reference.

Anyway, you have a fine radio. Wish I'd kept my RAS and complete coil set; it felt great to tune around, even if I didn't quite know where I was. But the guy I sold it to got hooked and got his Ham ticket so I feel better.
73, mike k w9nrd/ae

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: n5off@w5ddl.aara.org
Subject: Need R-390A Part (junkier?)
Message-ID: <300783@w5ddl.aara.org>

Looking for a crystal deck oven and cover from a 390A junker. The oven on my R-725 passed the smoke test (all too well). It is shorted.

Any junkers out there?

73 de tom

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: BRICKEY_PETER@Tandem.COM
Subject: NIB Heathkit
Message-ID: <199602160459.AA10041@POST.MIS.TANDEM.COM>

Hi All;

I advertised, among other things, a Heathkit 'tuneable audio filter' that was still in kit form (box has never been opened) in the Feb issue of ER. I had one person that wanted to buy it and when questioned wanted to build it. I would like to see it remain as a unbuilt kit.

So, I thought I would post it to the list and see if anyone wants it who will keep it as an unbuilt kit. Otherwise, I will sell it to the above caller.

For Sale: Heathkit 'tuneable Audio Filter' (HD-1418) \$45.00

I also have a very clean Heathkit SB-400 \$75.00

73's Peter

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: Parasitic Suppressors
Message-ID: <Pine.ULT.3.91.960216172723.5885D-100000@dua150.kpt.emn.com>

As far as I know, the Carborundum Company is still in business. One alternative to clips for mounting their parts is to use thin brass shim stock to almost completely wrap around the silvered ends in the form of a clamp tightened with a screw.

As an alternative to using nichrome wire, small gauge stainless welding

wire has a resistance of several ohms per foot to tens of ohms per foot depending on its gauge. Small parasitic suppression coils wound with this wire have an extremely low-Q due to the wire resistance. Chromel, alumel, and constantan thermocouple alloys also make good resistance wire and are readily available. Contact me at the address BELOW if you need sources.

73, Barry WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: n5off@w5ddl.aara.org
Subject: R-390A Covers
Message-ID: <300781@w5ddl.aara.org>

Covers for the R-390A and the 390 are interchangeable.

73 de tom

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: "Rhett T. George" <rtg@ee.duke.edu>
Subject: Stuck screws
Message-ID: <199602161501.KAA109416@ee.duke.edu>

- Greetings -

Bob, W8W0, posed some fine questions regarding disassembly of something that does not want to be disassembled.

Regarding stuck screws, both slot head and Phillips head, lighter fluid or very light oil (sewing machine oil) will run into the threads almost as well as Liquid Wrench. I have had good luck moving the screw with a dab of valve-grinding compound on the end of the screwdriver (slot or Phillips) which give mutual bite between blade and screw head.

Regarding the nuts with beautiful straight knurl patterns, I try to keep pair of pliers with similar pattern on the jaws. A piece of soft copper interposed betwixt nut and pliers will conform to both patterns and improve the bite. Masking tape on the panel helps prevent scarring. I try to look behind the panel for a hex nut on the back side which can be loosened first, as well.

73 Rhett - KE4HIH

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996

From: wb4ijn@awod.com (Steve Thomason)

Subject: SX101A Comments

Message-ID: <199602161735.MAA13953@sumter.awod.com>

Regarding the SX101A (and other comments):

It is one of the very best looking receivers I own. I have it paired up with an HT32A transmitter and an HT33B amplifier, and along with the R46B speaker, the group is probably the prettiest vintage station I have operating.

Performance wise, however, I believe it falls short of most of the other receivers I have. To give perspective to my observations, I have up and operating the following receivers:

Hammarlund: SP100, SP400, SP600, HQ120, HQ129X, HQ140X, HQ150, HQ160
HQ170, HQ180.

Collins: 51J-2, 75A-1, 75A-2, 75A-3, 75A-4, 75S-1, 75S-3B

Hallicrafters: SX-16, SX-28A, SX101A

TMC: GPR90RX, GPR90

Drake: R4, R4A, R4B, SPR-4, SW-4

As you can tell, I am quite partial to Hammarlund. Perhaps because my first receiver ever was an used HQ129X I bought in 1963 when I got my Novice license.

I have had a few SX101A's, and even a couple of SX115's, but you can see what is left; only the one SX101A, and only because it is beautiful and matches the 32A and 33B. Otherwise, I am not impressed with its performance.

My favorites are: ALL the Hammurlands EXCEPT the 170 and 180.

Most used at present: HQ140X with the desk kilowatt.

My least favorite: the SX101A. (It's not for sale, though!)

You might have noticed that I didn't mention any of my Collins stuff. All of it is OK, and I enjoy operating it, and it is real pretty "stuff," and I'm real proud of it all, but I LOVE the Hammarlunds for some strange reason.

My most favorite "black box" Collins receiver: 75A-2

My least favorite "black box" Collins receiver: 75A-3 (Not for sale either)

Of course, my observations are not based upon any engineering research or technical specifications, just personal preference and subjective observations. But then, I guess that's one reason we operate boatanchors: personal preference.

P.S. I'm STILL looking for a pretty SP-200 for my collection. I no longer have any trade material since I'm not interested in getting rid of any of my "stuff", so anybody with an SP-200 will have to settle for a cash sale.

73, Steve, WB4IJN

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: pmills@cyberhouse.com (Phil Mills)
Subject: Wanted: National 600KT xmtr or info
Message-ID: <199602161250.GAA15938@ns.cyberhouse.com>

Thanks to a member of this list, I have acquired 3 of the 5 pieces that make up the National 600KT xmtr as shown on pages 42 and 95 of Rippen's "Tube Type Transmitter Guide". The units I have are the bottom 3 in the picture on page 42....the class B modulators, the modulator and buffer power supply, and the final power supply. I would like to make this a complete unit if possible. Does anyone know the whereabouts of the two upper units... that is, the exciter and speech amplifier unit, and the buffer and final amplifier unit? This is a kit of 1938 vintage sold by Montgomery Wards. Also, if anyone has any documentation, sales literature, or catalogs showing this unit, I would like to obtain copies of that info.

thanks,
Phil
Phil Mills, AB5TH
pmills@cyberhouse.com
713-992-5762

From boatanchors@theporch.com Fri Feb 16 17:38:50 1996
From: Sandy Blaize <70401.134@compuserve.com>
Subject: Re: Where to buy Global resistors
Message-ID: <960216093843_70401.134_IHD61-3@CompuServe.COM>

We used to use strips of copper flashing about 3/16" wide and global resistors to make dandy parasitic suppressors on some amplifiers we converted from PL-175A's to 4-400C's. Eimac stopped the PL-175 production! The 4-400C was not quite as easy to drive and had a nasty tendency to oscillate until we calmed it down with the right combo of parasitic

suppressors.

The Brits at Marconi used a small "cartridge" type of carborundum resistor that looked like a miniature of the one Heath used in the "Cantenna". They were about 3/8" in diameter and 2" long. Forget the value. Seems like they were about 150 ohms.

73,

Sandy, W5TVW